

Assignment 2

Q1) Find Matrix C if $C = 2A + B$

$$A = \begin{pmatrix} 3 & 2 \\ 5 & 1 \end{pmatrix} \text{ and } B = \begin{pmatrix} 8 & -1 \\ 4 & 3 \end{pmatrix} = \begin{pmatrix} & \\ & \end{pmatrix}$$

Q2) Find Product of AB

$$AB = \begin{bmatrix} 1 & 2 \\ 5 & 3 \end{bmatrix} \times \begin{bmatrix} 2 & 5 \\ 7 & 3 \end{bmatrix} = \begin{bmatrix} & \\ & \end{bmatrix}$$

Q2.1) Find Product of AC

$$AC = \begin{bmatrix} 1 & 2 \\ 5 & 3 \end{bmatrix} \times \begin{bmatrix} 1 & 3 \\ 5 & 1 \end{bmatrix} = \begin{bmatrix} & \\ & \end{bmatrix}$$

Q2.2) Find Addition of AB & AC

$$AB + AC = \begin{bmatrix} & \\ & \end{bmatrix}$$

Q3) Find Addition of B & C

$$B+C = \begin{bmatrix} 2 & 5 \\ 7 & 3 \end{bmatrix} + \begin{bmatrix} 1 & 3 \\ 5 & 1 \end{bmatrix} = \begin{bmatrix} & \\ & \end{bmatrix}$$

Q3.1) Find the product of A and (B + C)

$$A(B+C) = \begin{bmatrix} 1 & 2 \\ 5 & 3 \end{bmatrix} \times \begin{bmatrix} 3 & 8 \\ 12 & 4 \end{bmatrix} = \begin{bmatrix} & \\ & \end{bmatrix}$$

Q4) True or false

$$A(B+C) = AB + AC$$